Resitected Circulation

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Estimation of Risks of Early Autumn Capacity Dates Based on August Soil Moisture Deficits

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The risk, in years in 10, of a return to soil moisture capacity before the end of October can be estimated from the following formulae.

NORTH (under 30 in average annual rainfall)	$2.5 + 0.27R - 2.2D_A$
MIDLANDS	$2.9 + 0.27R - 2.2D_A$
EAST AND SOUTH-EAST	$1.9 + 0.30R - 2.2D_A$

where R = average annual rainfall in inches.

D = estimated soil moisture deficit at the end of August in inches.

Taking all the AREAS together the following tables state the risk in years in 10.

End of August deficit	Average Annual Rainfall									
	21	22	23	24	25	26	27	28	29	30
1	6.1	6.4	6.7	7.0	7.2	7.5	7.8	8.1	8.3	8.6
1.5	5.0	5.3	5.6	5.9	6.1	6.4	6.7	7.0	7.2	7.5
2	3.9	4.2	4.5	4.8	5.0	5.3	5.6	5.9	6.1	6.4
2.5	2.8	3.1	3.4	3.7	3.9	4.2	4.5	4.8	5.0	5.3
3	1.7	2.0	2.3	2.6	2.8	3.1	3.4	3.7	3.9	4.2
3.5	0.6	0.9	1.2	1.5	1.7	2.0	2.3	2.6	2.8	3.1
4	0	0	0.1	0.4	0.6	0.9	1.2	1.5	1.7	2.0
4.5	0	0	0	0	0	0	0.1	0.4	0.6	0.9

Any comments or critism on this memorandum should be sent to the author.

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